What is claimed is:

1. A battery comprising:

a battery cell having a pair of terminals;

a circuit board disposed on a side of the battery cell;

a pair of connecting members, one end of each connecting member being attached to a respective end of the circuit board, and the other end of each connecting member being attached to the respective terminal of the battery cell;

a connector having a resin path, the connector provided on the circuit board; and

a molded resin portion continuously formed via the resin path, covering the circuit board and the connecting members disposed on the battery cell.

2. A battery according to claim 1,

wherein the battery cell is rectangular,

one of the pair of terminals protrudes from one of the side provided with the circuit board and a side not provided with the circuit board on the battery cell, and

the other of the pair of terminals is a location on the battery cell except at an the location at which the one of the pair of terminals is disposed.

3. A battery according to claim 2, further comprising:

an insulating layer between the connecting member to which one of the pair of terminals is connected and the battery cell.

4. A battery according to claim 1,

wherein the connector comprises

a terminal housing arranged on the circuit board; and

an external connecting terminal connected to the circuit board electrically, and wherein the external connecting terminal is arranged on top of the terminal housing.

5. A battery according to claim 4, wherein one end of the external connecting terminal is exposed at a side of the terminal housing.

6. A battery manufacturing method comprising the steps of:

preparing a battery cell and a circuit board;

mounting a connector having a resin path onto the circuit board;

forming a battery unit by fixing the circuit board on which the connector is mounted on a side of the battery cell and electrically connecting the circuit board and terminals of the battery cell by connecting members;

arranging the battery unit in a metal mold and forming two cavities divided by the connector;

supplying soft resin via a resin inlet, which opens to one of the two cavities, to the two cavities mutually connected by the resin path of the connector; and

attaching a molded resin portion to the battery cell for covering the circuit board and the connecting members by hardening the resin.

7. A battery manufacturing method according to claim 6, wherein the resin inlet is arranged on a portion such that distances between the resin inlet and each end of the two cavities are equal.